

Prevention and Management of Low Back Pain

Sponsored by
United States Army
Physical Therapists

Outline

- Introduction & Quick Anatomy
- What is Low Back Pain?
- What Can I Do to Help?
- What Should I Avoid?
- Who Typically Does Best?
- What Should I Do if I Don't Improve?
- How Can I Minimize Recurrence?
- Quiz/Conclusion

8 Out of 10 People Suffer from Low Back Pain



Diagram from Ft Hood Graphics

Good News!

If you stay active and continue your daily tasks - most people with low back pain have a quick recovery rate!

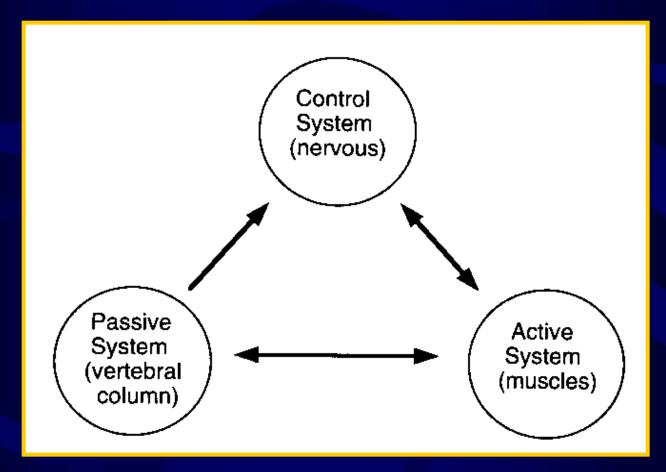
Quick Anatomy Lesson



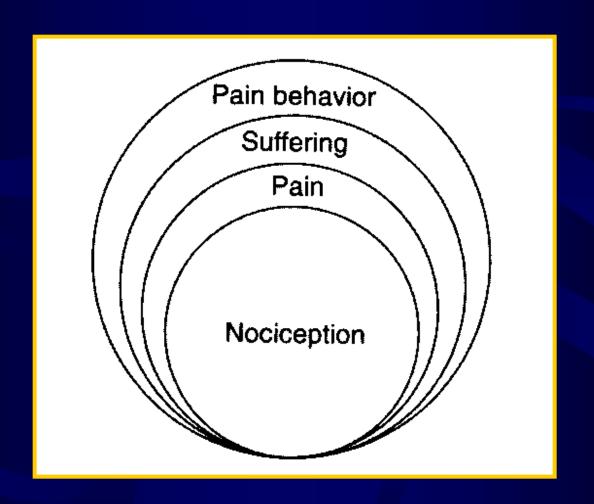


Pictures from Netter

A Strong System That Works Together!



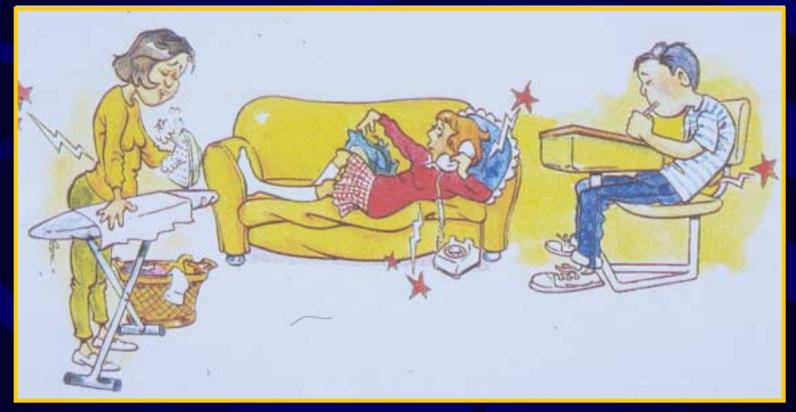
What is PAIN?



So, What Causes Back Ache?

- Most back pain is a mechanical problem
- It is a movement disorder of the musculoskeletal system
- Back pain is a symptom NOT A DISEASE!
- Basically your back is not moving and working as it should - it is out of condition like a care engine that needs tuned.

Can You Think of Some Activities That May Have Aggravated Your Back?



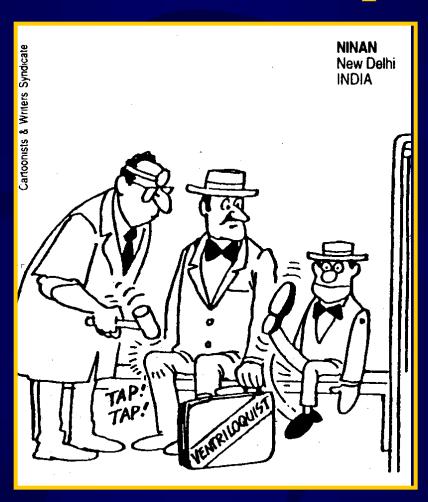
Most Low Back Pain Can Be Attributed To:

- Poor Posture
- Improper Body Mechanics
- Faulty Living and Working Habits
- Loss of Flexibility
- General Decline in Physical Fitness

As Beetle Knows Stress and Depression Can Add to Low Back Pain!



How do I know that I am not one of the few with a serious problem?



Stretch Brea

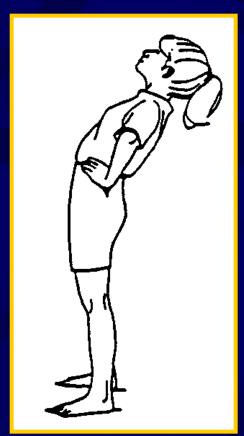


Diagram from VHI

What Can I Do to Help?

- Staying Active
- Posture
- Body Mechanics
- Mobility Exercises
- Strengthening Exercises
- Ice
- Follow directions given to you by your healthcare provider!

Staying Active

- Build up your activity tolerance
- You may need to modify your current activities slightly
- Seek help when lifting as needed

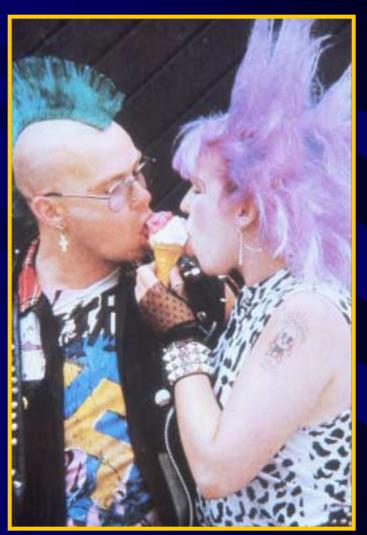
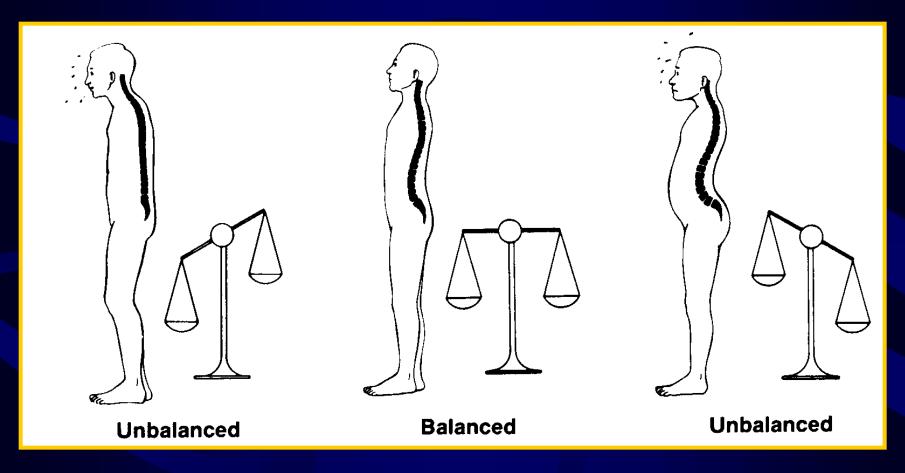




Diagram from Kendall

Keep Your Spine in Neutral!

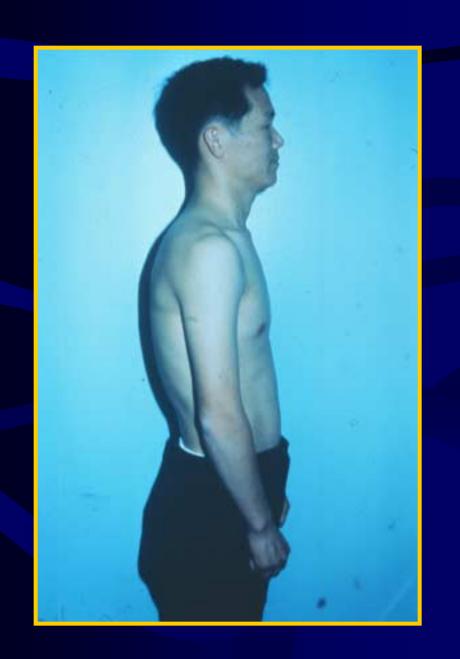


Is This Proper Posture?

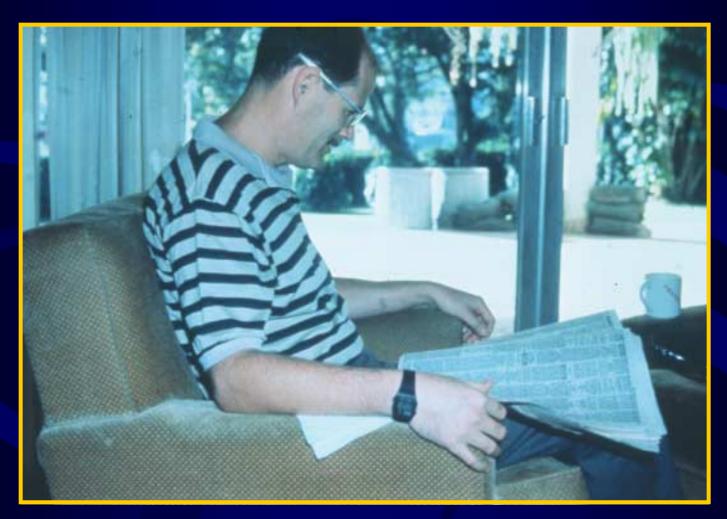




Do Activities Affect Our Posture?



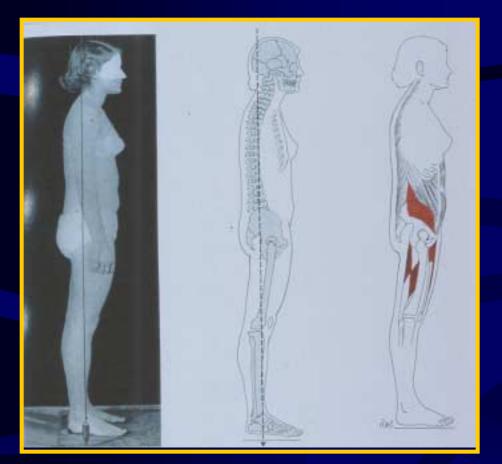
So, How Does the American Posture Affect Us?





Let's Take A Posture Test Break

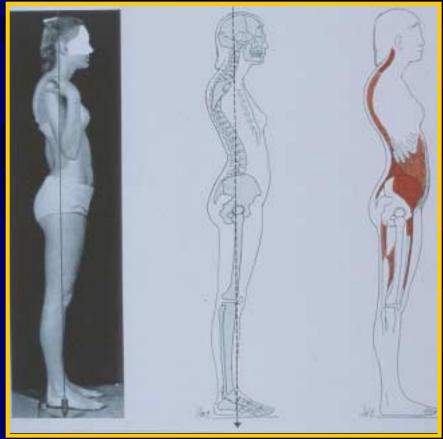
Picture from Krames



Flat Back

Pictures from Kendall

Sway Back



Remember your BACK when you lift!

B: Broad Base of Support

A: Keep Spine Aligned

C: Contract your abdominal and back muscles

K: Bend at your Knees

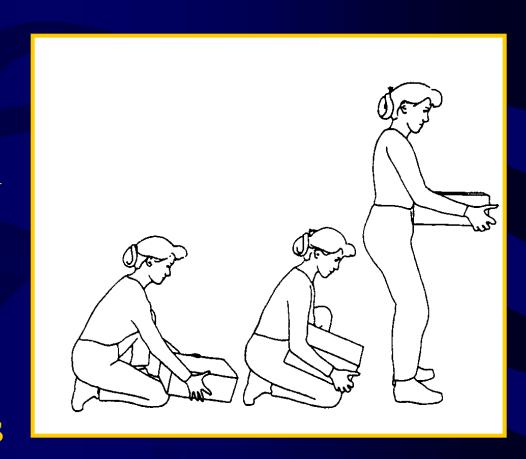




Diagram from Ft Hood Graphics

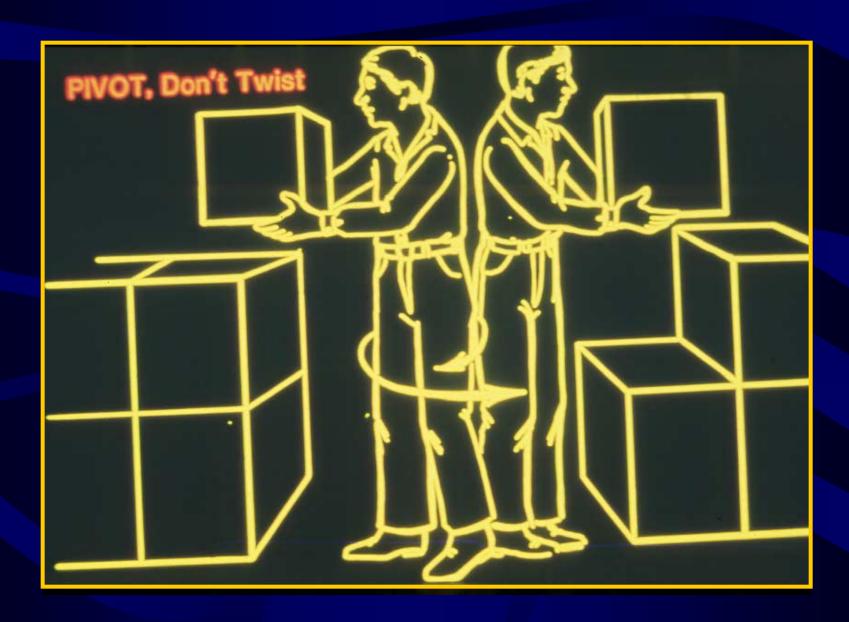
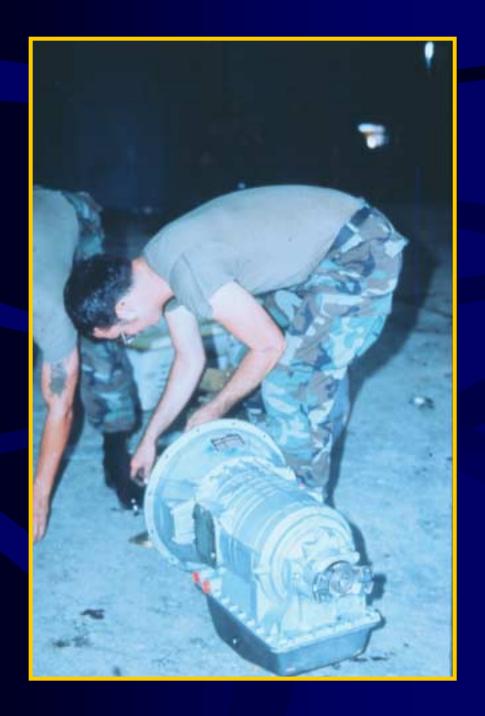


Diagram from Ft Hood Graphics



Just because you follow the lifting rules part of the time...



Doesn't Mean
You are
Home Free
From Low
Back Pain!

Everything Counts!

Try "Golfers Lift" for items under 5 pounds!



Diagram from VHI

Sitting & Driving

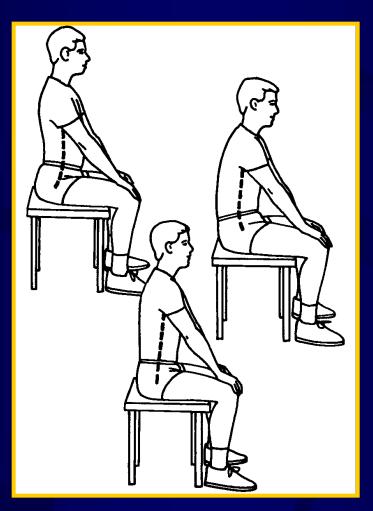
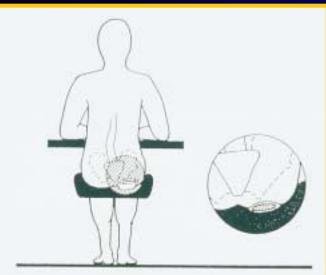
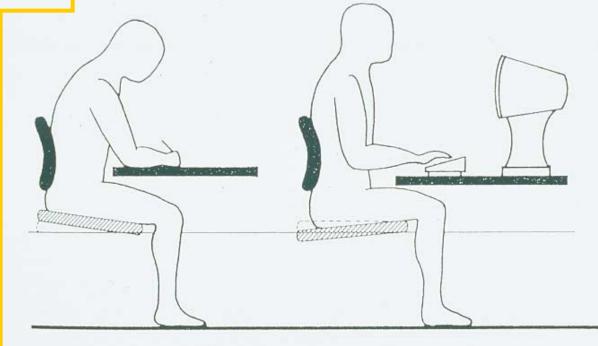
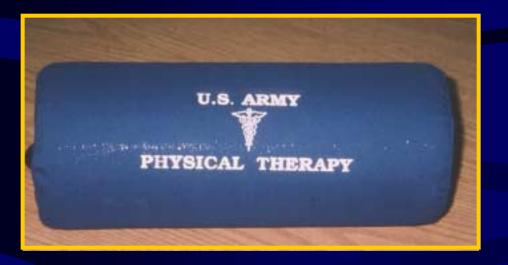


Diagram from Therapy Skill Builders



Helpful Hints!





Lumbar Rolls



Stretch Brea

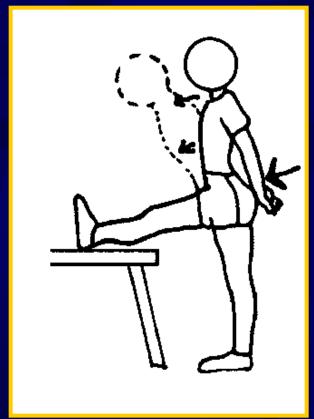


Diagram from PTEX

Standing

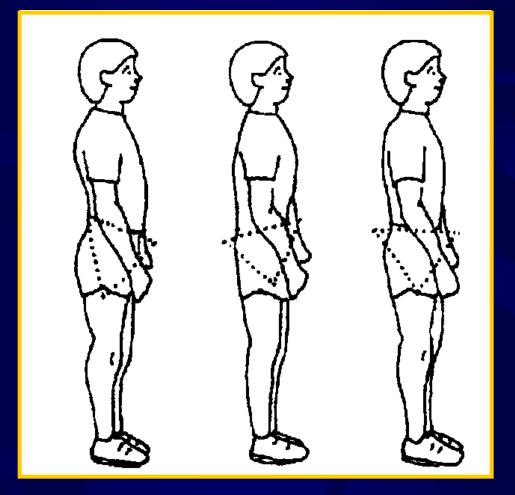
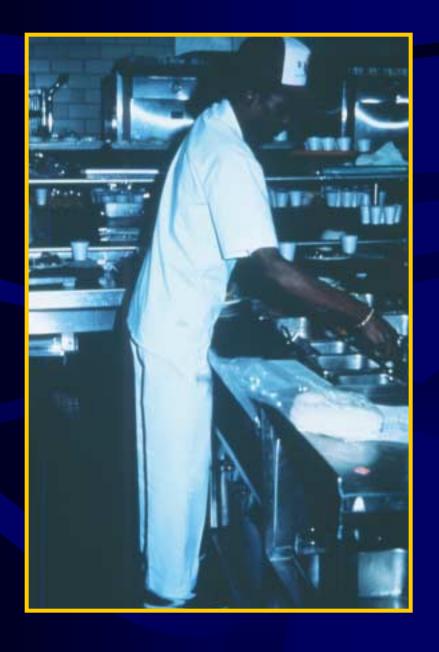
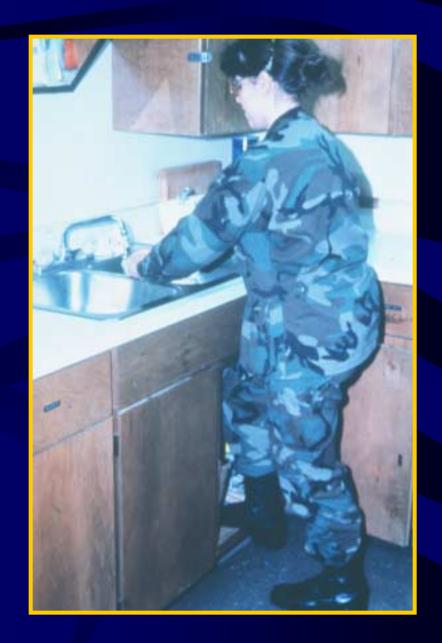


Diagram from Therapy Skill Builders



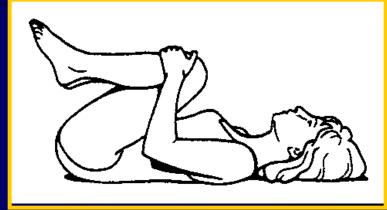
Do You Have To Stand For A Long Time?

Try This!



Stretch Brea





Household Tasks







Can You See the Difference?

Let's Try This...

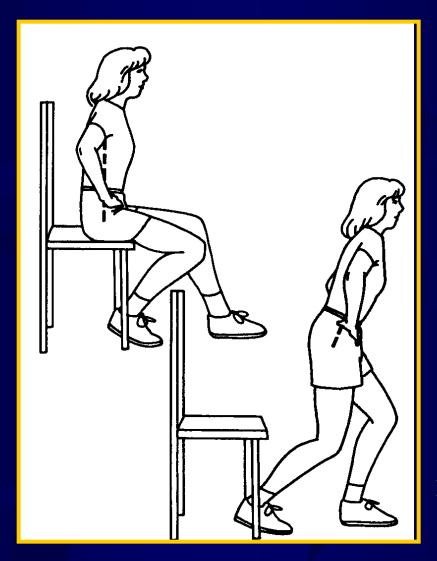
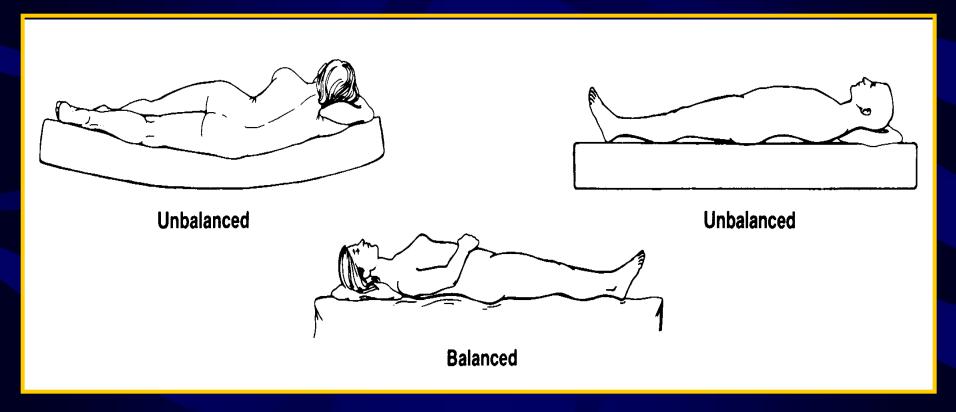


Diagram from Therapy Skill Builders

Sleeping



Pillow Selection

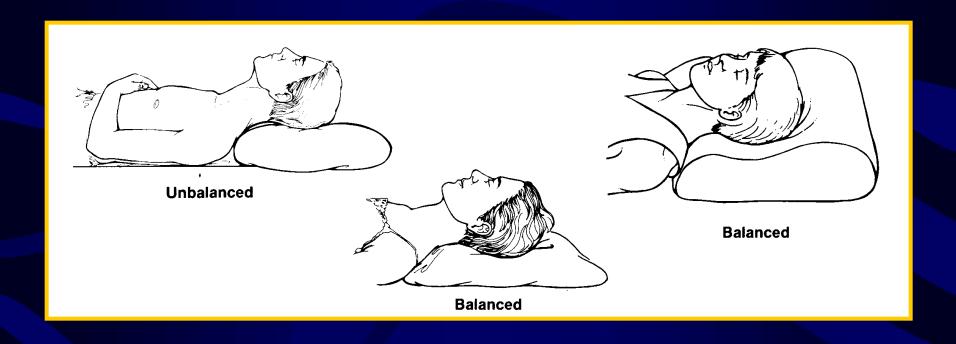
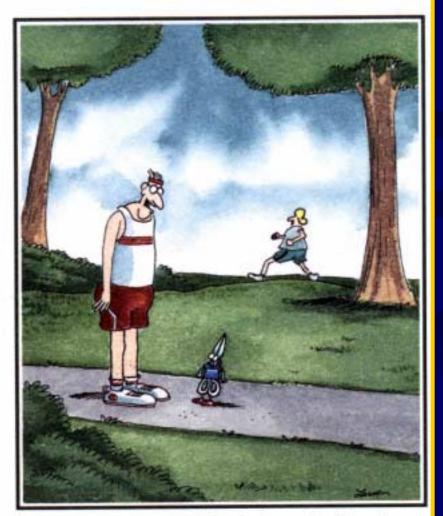


Diagram from Saunders



"Sorry, Kevin, but my friends have all advised me not to run with you anymore."

Aerobic Exercise

- Increases blood flow
- •Releases natural chemicals which reduce pain
- Promotes strong bones
- Develops fit muscles
- •Improves your overall health

Cartoon from Far Side

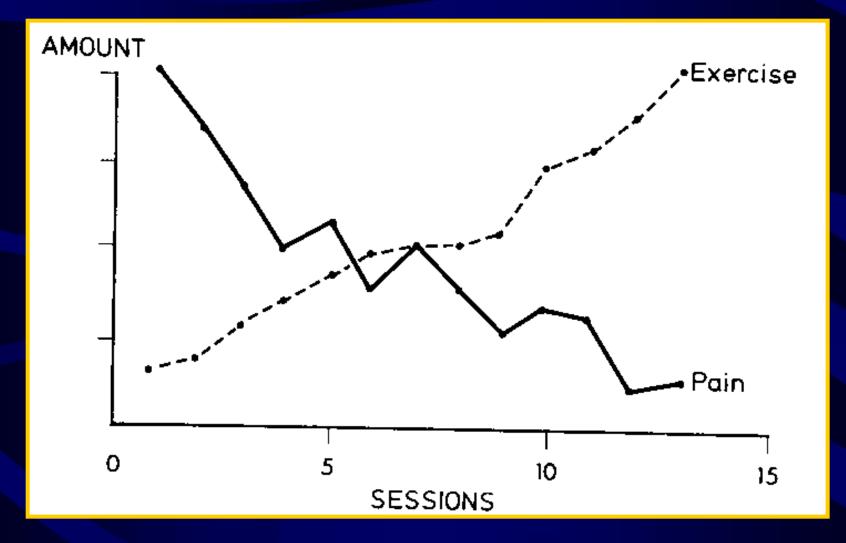


Diagram from Waddell

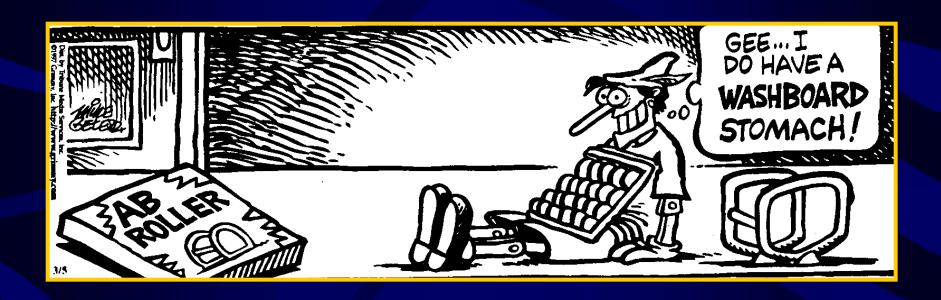








Strengthening Exercises



Lumbar Stabilization is a form of strengthening exercises that has proven to have a >90% success rate!



What Else Can I Do?

- Over-The-Counter Medications
- Sometimes Prescription Medications will be Prescribed
- Ice Packs
- Heat Packs (ONLY if ice doesn't work!)
- Manual or Manipulative Therapy

What Should I Avoid?

- Bed Rest
- Inactivity
- Smoking
- Prolong Sitting/Driving
- Vibration
- Stress



Tobacco Use Reduces Soldier Readiness



Stamina



Wound Healing



Cold Weather Injuries

Night Vision





Poor night vision can be a <u>BIG</u> problem for a soldier who smokes!



Hand-Eye Coordination





Stretch Brea

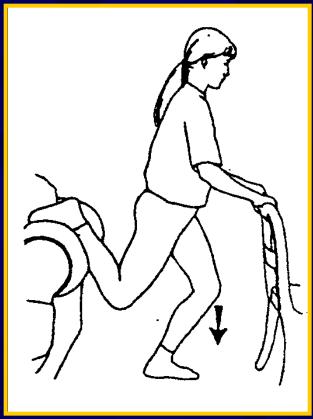


Diagram from VHI

Who Typically Does the Best?

COPERS

- Those that know the pain will get better
- Does not fear the future
- Carries on as normal as possible
- Stays positive & active

AVOIDERS

- Suffers the most
- Worries about the future
- Rests a lot and waits for the pain to get better
- Longer disability

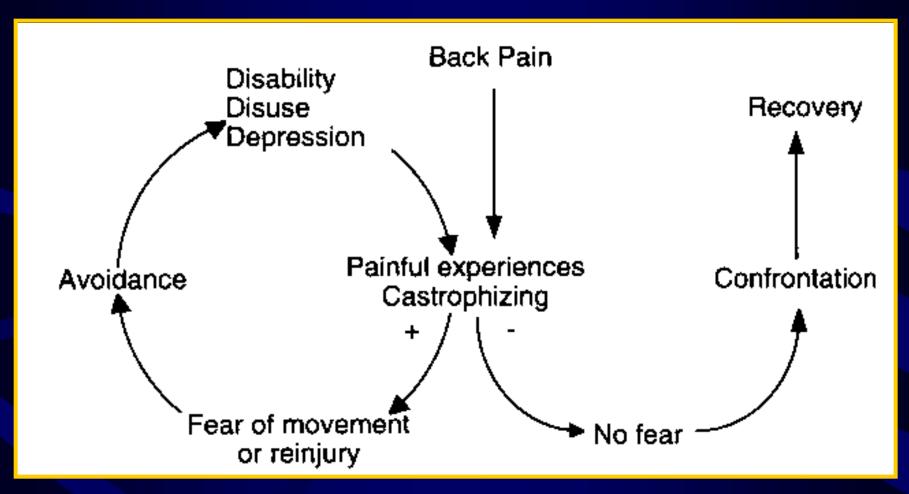


Diagram from Waddell

What Should I Do If I Do Not Improve?

- If your symptoms persist >6 weeks make sure you follow-up with a healthcare provider
- If symptoms don't resolve your healthcare provider may want to do more tests (x-rays, MRIs, Lab studies)
- If you have a change in your bowel or bladder status or you feel your foot dropping see a healthcare provider immediately!

Natural History of Low Back Pain

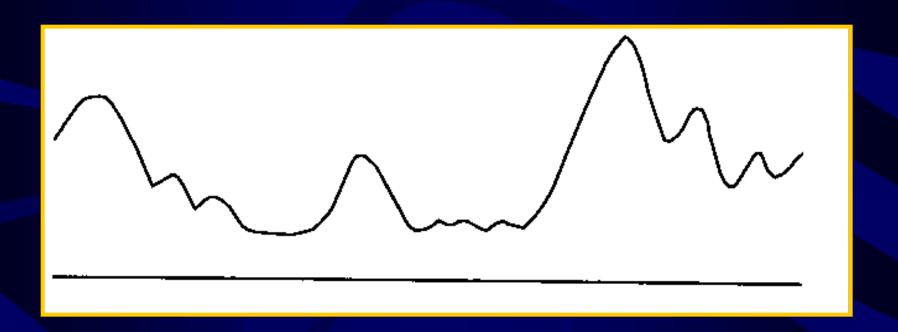


Diagram from Waddell

How Can I Minimize Recurrence?

- Stay Active
- Strengthen Your Spine
- Participate in Regular Aerobic Exercise
- Don't Smoke
- Practice Good Body Mechanics/Proper Lifting!
- Learn to Manage Stress

What's Wrong With This Picture?



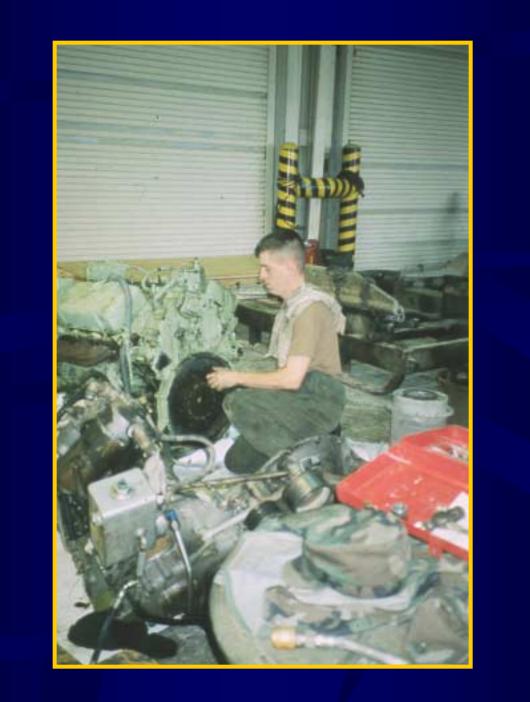




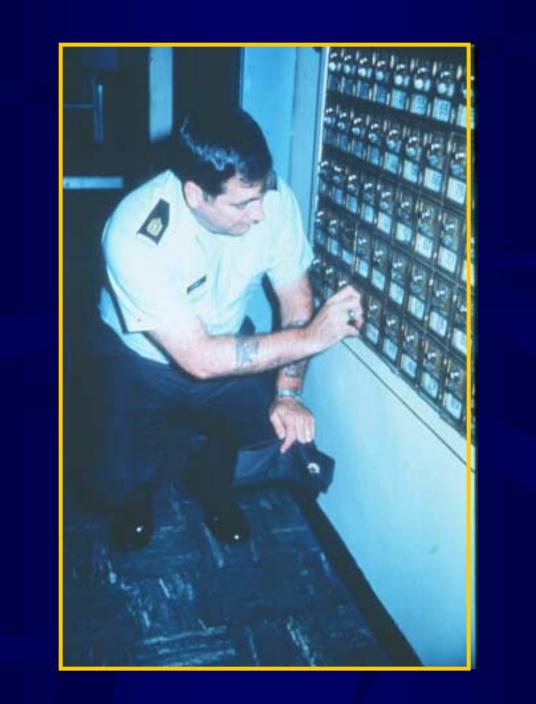






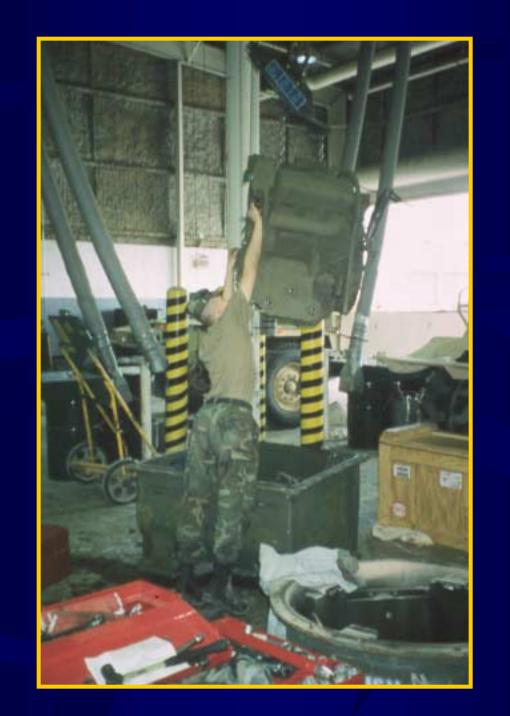








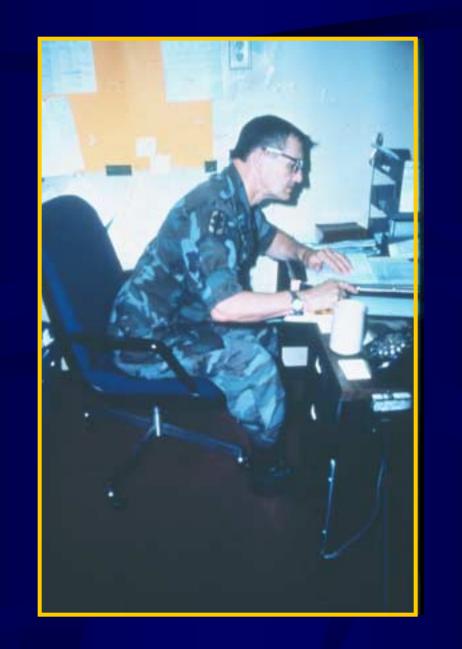












Simple Back Ache Should Not Cripple You Unless You Let It!

Responsibility

Knowledge is only as good as you apply it. There is no magic cure, only persistence on your part. It is your responsibility to make yourself better - we can only guide you in the right direction!

